Getting Started

This guide helps you install and
connect your ADSL Modem to the Internet.
You may then configure it for your specific needs
through the built-in web server. For detailed instructions,
use the Online User Guide on the Internet: www.igmanual.com.
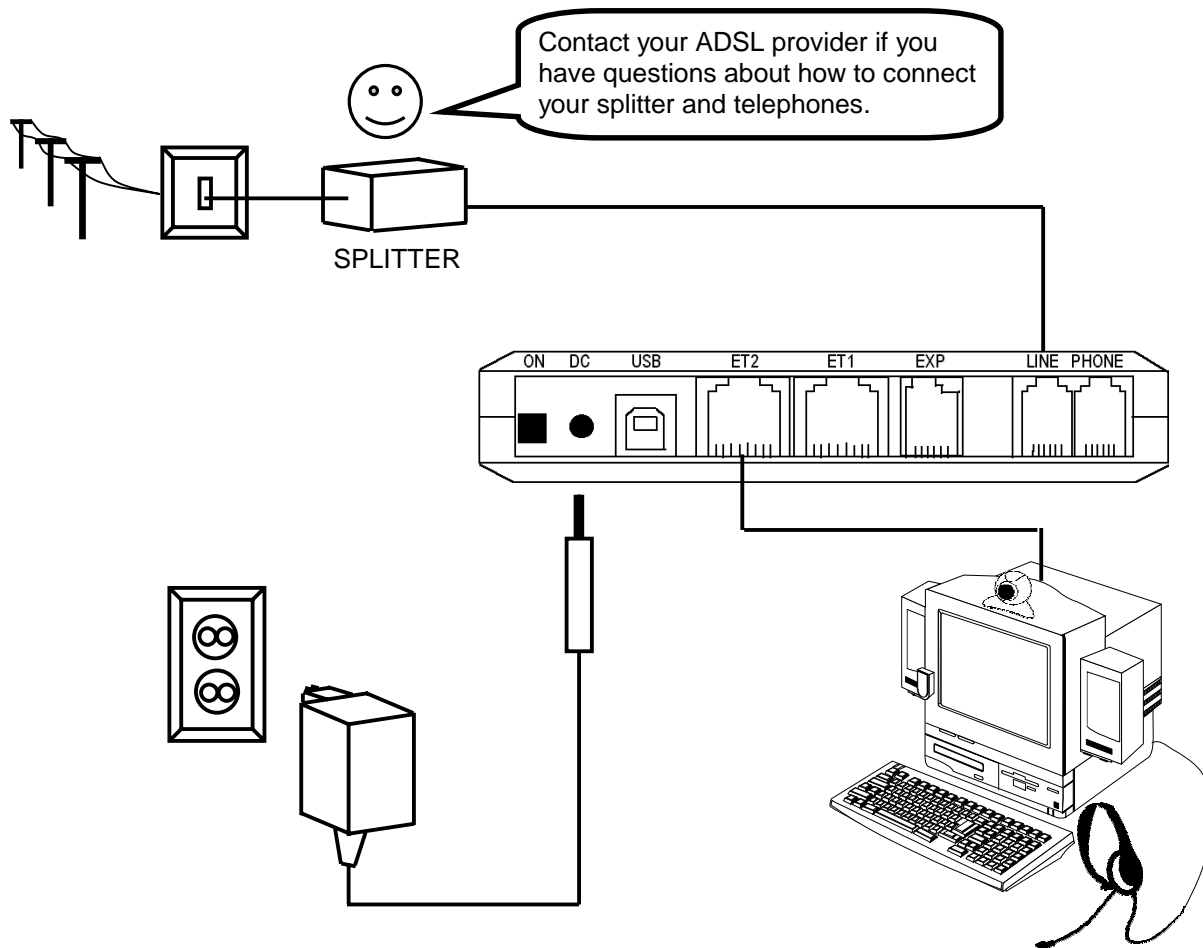
Quick Start

A

Hook up the Cables!

Note! Make sure your computer is turned off!

1. Connect the included Ethernet cable between port **ET2** on the back of the ADSL modem and the Ethernet port on your computer.
2. Connect the telephone cable:
    a. if an external splitter is included in your package, connect it between the main telephone plug in your home, and port **LINE** of your ADSL modem.
    b. in some countries the splitter is built-in into the ADSL modem (stated on the label on your package), no external splitter is necessary. In that case connect port **LINE** of your ADSL modem directly to the main telephone plug in your home.
3. Connect the power adapter and push the **ON** switch.

Contact your ADSL provider if you have questions about how to connect your splitter and telephones.

SPLITTER

ON DC USB ET2 ET1 EXP LINE PHONE

B *Surf into your ADSL modem!*

1. **Wait** until the ADSL Modem has established a connection (indicated by the WAN LED being lit). This might take a couple of minutes.
2. Turn your pc on and start your web browser (i.e. Netscape or Internet Explorer).
3. Surf to your ADSL Modem by typing its default IP Address: **192.168.0.1**
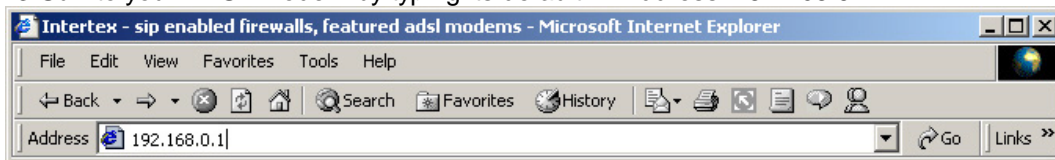
I don't see the built-in web page! Why?
1. *Do you have an Ethernet card installed in your computer, is it properly configured? Refer to page 8!*
2. *Are the cables correctly connected? Both the **WAN** and **ET2** LEDS should be lit.*
3. *Reboot your PC and try again!*
4. *Is your PC and web browser properly configured? Refer pages 8 and 10!*
5. *Do you run another DHCP Server on your LAN? Refer to page 9!*
6. *Do you use static IP addresses on your LAN? Refer to page 9!*

C *Select operator!*

1. Click **Login** on the first page of the web interface.
2. Enter login "admin", password "admin".
3. Click **Network** on the main menu.
4. Click **Operator, PPP and Keep-alive**.
5. Select your operator from the list, and click **Change**. *(if your operator is not on the list, select Other, and fill in the operator, network and ADSL settings manually)*
6. If you have received any service name, user or password from your operator, enter them.
7. Click **Save**.

Congratulations! You are now connected to the Internet!

You may start surfing now! You may for instance try surfing to: www.intertex.se.
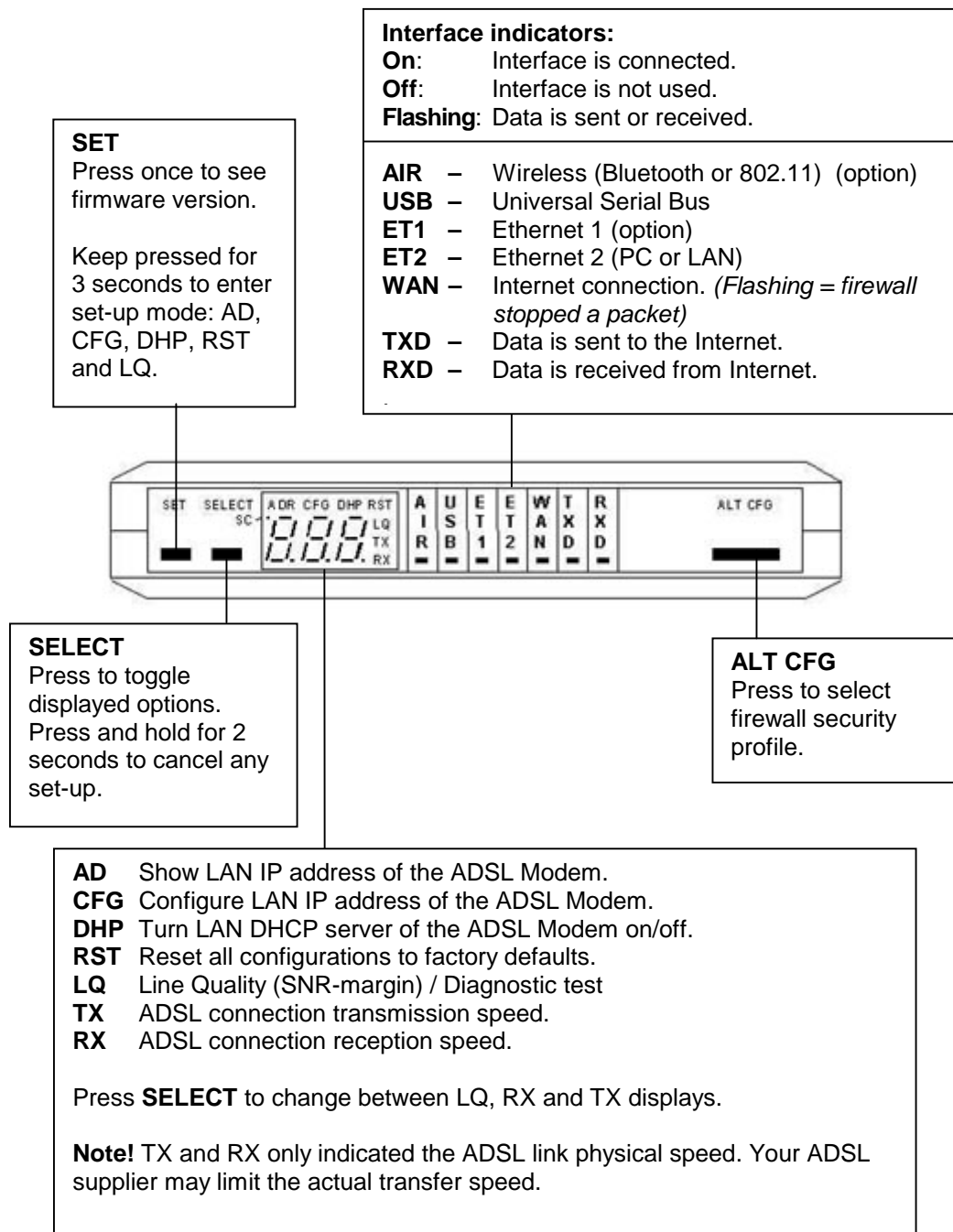
I don't see any web pages! Why?
1. *Reboot your PC, allowing it to get fresh configuration data from the ADSL Modem, and try again!*
2. *Is your firewall properly configured? Press **ALT CFG** on your ADSL modem repeatedly until "Hi" displays.*
3. *Test your Internet connection with the built-in diagnostic test. Refer to page 6!*
4. *Did you select the right operator? Refer to step C above.*
5. *Is your web browser properly configured? Refer to page 11!*
6. *Is your ADSL Modem properly configured? Refer to page 12!*
7. *Have you used your Internet connection before with some other ADSL-modem? In that case, unhook that ADSL modem, and wait 3 hours before re-connecting your ADSL Modem. It may take such long time before your ADSL-supplier's cache entries expire.*
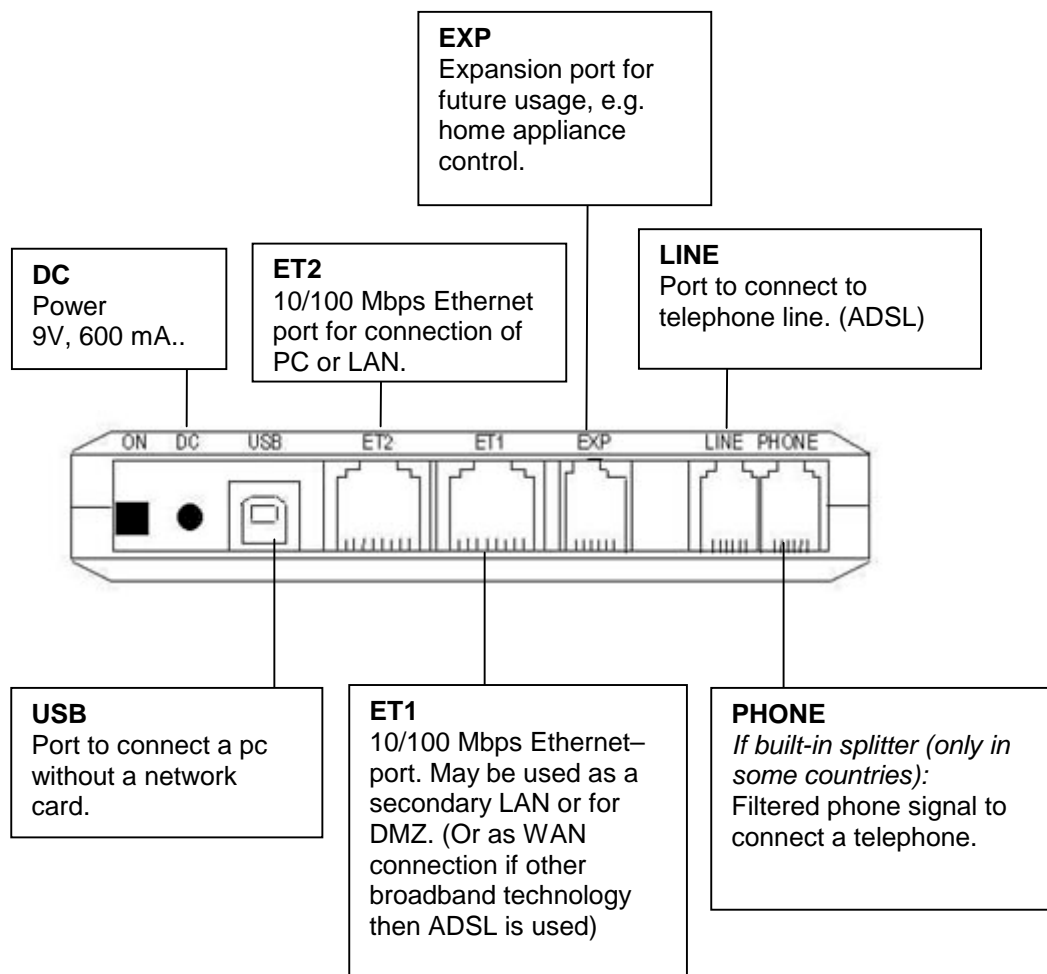
We recommend you to read the always up-to-date online user manual. You access it by clicking on **Online User Manual** on the first page on the ADSL modems web configuration pages. See page 6, for more information.

Overview – Front Panel

Interface indicators:
On: Interface is connected.
Off: Interface is not used.
Flashing: Data is sent or received.

AIR – Wireless (Bluetooth or 802.11) (option)
USB – Universal Serial Bus
ET1 – Ethernet 1 (option)
ET2 – Ethernet 2 (PC or LAN)
WAN – Internet connection. *(Flashing = firewall stopped a packet)*
TXD – Data is sent to the Internet.
RXD – Data is received from Internet.

SET
Press once to see firmware version.

Keep pressed for 3 seconds to enter set-up mode: AD, CFG, DHP, RST and LQ.

SELECT
Press to toggle displayed options. Press and hold for 2 seconds to cancel any set-up.

ALT CFG
Press to select firewall security profile.

AD	Show LAN IP address of the ADSL Modem.
CFG	Configure LAN IP address of the ADSL Modem.
DHP	Turn LAN DHCP server of the ADSL Modem on/off.
RST	Reset all configurations to factory defaults.
LQ	Line Quality (SNR-margin) / Diagnostic test
TX	ADSL connection transmission speed.
RX	ADSL connection reception speed.

Press **SELECT** to change between LQ, RX and TX displays.

Note! TX and RX only indicated the ADSL link physical speed. Your ADSL supplier may limit the actual transfer speed.

NOTE. Some ADSL Modem models do not have all the keys and LEDS described.

Overview – Back Panel

EXP
Expansion port for future usage, e.g. home appliance control.

DC
Power
9V, 600 mA..

ET2
10/100 Mbps Ethernet port for connection of PC or LAN.

LINE
Port to connect to telephone line. (ADSL)

```
        ON   DC   USB      ET2        ET1        EXP       LINE  PHONE
```

USB
Port to connect a pc without a network card.

ET1
10/100 Mbps Ethernet–port. May be used as a secondary LAN or for DMZ. (Or as WAN connection if other broadband technology then ADSL is used)

PHONE
If built-in splitter (only in some countries):
Filtered phone signal to connect a telephone.

NOTE. Some ADSL Modem models do not have all the connections described.

Detailed instructions

Do you have problems getting your ADSL Modem to work?
Read the installation tips and the detailed instructions on the following pages for help!

Getting Help

HELP!

There are several ways to get information about the ADSL modem:

- **Getting Started Guide** – This Getting Started guide helps you to install, configure and start using your ADSL modem.

- **Built in Help** – Every configuration page on the built in web server has help texts that describe the different parameters. Just click the question marks.

- **Online User Manual** – In the online manual, you find the latest information tailored for your specific version of the ADSL modem. You access it via the link on the first configuration page of the ADSL modem or directly at www.igmanual.com.

- **Support** – If you experience problems when installing or using the ADSL modem that cannot be solved by the help indicated above, contact your retailer for assistance.

Diagnostic test

If you cannot access the Internet, your ADSL modem can attempt to localise the problem.

Note! The diagnostic test is only available in models with keys and display.

Start the diagnostic test like this:

1. Press and keep SET pressed 3 seconds to enter setup-mode.
2. Press SELECT 4 times until "LQ" is lit.
3. Press SET.
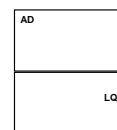
It takes a couple of seconds to perform the test. Any errors discovered are shown in the display. The diagnostic test can find multiple errors, press SELECT to flip through all error messages.
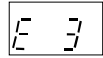
"E 1" to "E 9" indicate errors in your external Internet connection:
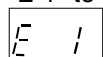
E 1   No ADSL link. Check all cables. Contact your broadband-supplier if the error remains.
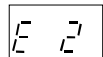
E 2   No WAN DHCP server found. This *may* be OK, but check configuration according to page 11. Reboot your ADSL modem. Contact your Internet Service Provider (ISP) if the error remains.

E 3   No Gateway found. This *may* be OK, but check configuration according to page 11. Reboot your ADSL modem. Contact your Internet Service Provider (ISP) if the error remains.
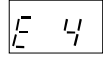
E 4   No DNS server found. Check configuration according to page 11. Reboot your ADSL modem. Contact your Internet Service Provider (ISP) if the error remains.
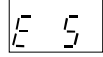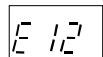
E 5   No Internet connection. You do have a connection to your ISP, but they have no Internet connection for the moment. Contact your Internet Service Provider (ISP) if the error remains.
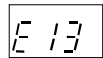
"E11" to "E19" indicate error in your local network:
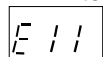
E 11   No Ethernet link. Check the cable connected to port ET2.

E 12   No DHCP addresses requested. The DHCP server of the ADSL modem is on, but no PC:s on the LAN have requested addresses. This *may* be OK, but check your settings, see page 8.

E 13   No Ethernet packets at all received.
This *may* be OK, but check your settings, see pages 7 and 11.

If no error messages are shown, then your Internet connection is OK. Any remaining error is probably due to your PC's settings. See page 7 for more information!

Check your PC's settings!

The ADSL modem is delivered with factory defaults that fit most users. If your PC has the default network and web settings, then everything should work at once. If not, please check your PC's settings:
(The steps described here are for Windows 98. Other operating systems have similar menues, though accessing them may be done differently.)

- Select **Network** in Windows Control Panel or <u>right</u> click on the "**Network**" icon on your desktop, and select "**Properties**".

> **I have no "Network" icon on my desktop! Why?**
> *You need a network card installed in your computer. Configure it according to the instructions from the manufacturer.*

- Double click on "**TCP/IP**" for your network card on the list that appears.

> **There is no "TCP/IP" in the list! Why?**
> *It is not installed. Select "Add...", "Protocol", "Microsoft", "TCP/IP".*
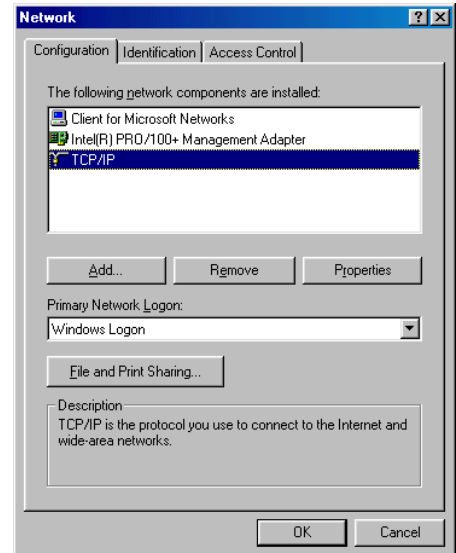
There are two ways to address computers in a local network (LAN):

Dynamic IP addressing – a DHCP server on the LAN distributes IP addresses to all connected computers.

**Static IP addressing** – all connected computers use a manually assigned IP address.

Check how your computer i configured to receive an IP address:

a) If it is configured to use dynamic addressing, the settings look like this:
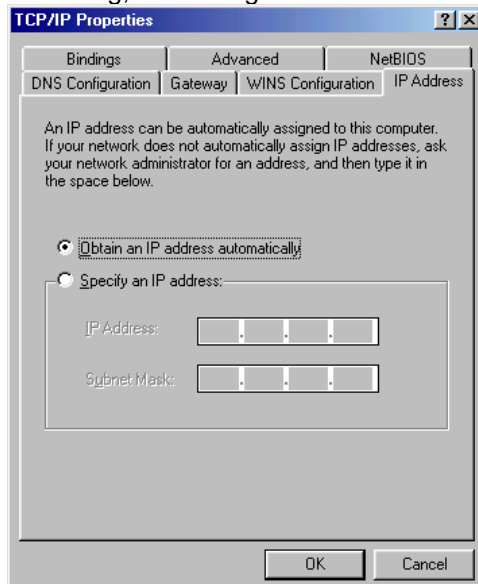
No configuration is needed. The built-in DHCP server in your ADSL modem will distribute correct IP addresses.
Check your setting according to the pages 8, 10, and 11.

b) If it uses static IP addresses the setting look something like this:
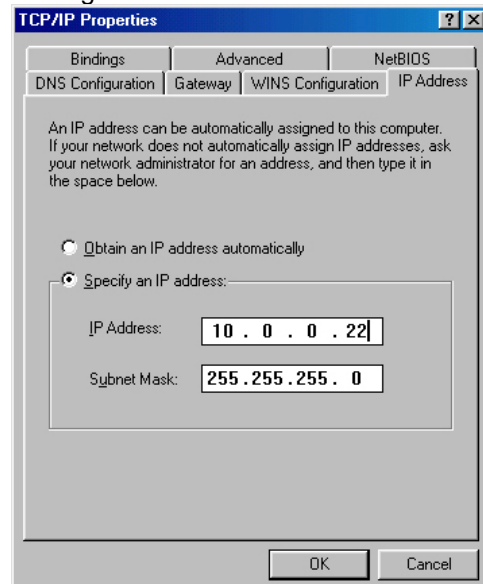
You have two options:
1 (*recommended*): Configure all computers on your LAN to use dynamic IP addressing. Refer to page 8 for more information.
2: Configure your ADSL modem and your PC:s so they fit your LAN. Refer to page 9 for more information

7

## *Using the ADSL Modem with Dynamic IP Addresses on the LAN*

The ADSL Modem is delivered configured for dynamic IP addressing on the LAN. The ADSL Modem acts as a DHCP server and provides IP addresses.

All PCs on your LAN must be configured like this:

**Note!** The steps described here must be performed on all PCs of the LAN.

(The steps described here are for Windows 98. Other operating systems have similar menues, though accessing them may be done differently.)

1. Right click on the **Network** icon on your desktop, and select **Properties**.

2. Click on **TCP/IP** for your network card in the list that appears.

3. Click on **Properties** to see TCP/IP configuration:

4. Select **Obtain an IP address automatically**.

5. Check your DNS, Gateway and WINS settings: All fields should be empty and DNS and WINS should be disabled:
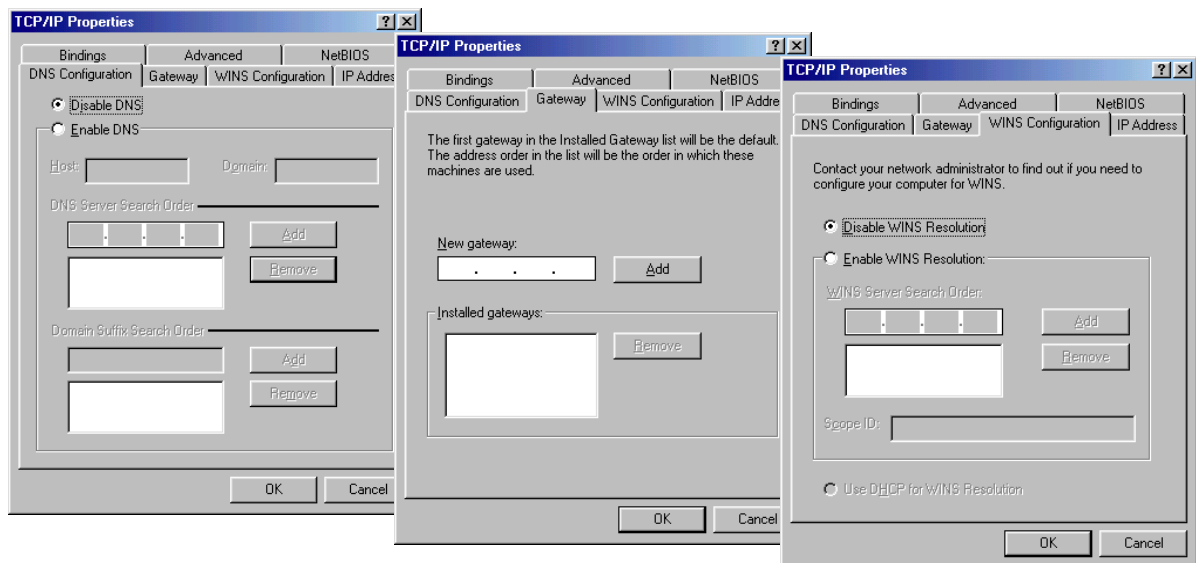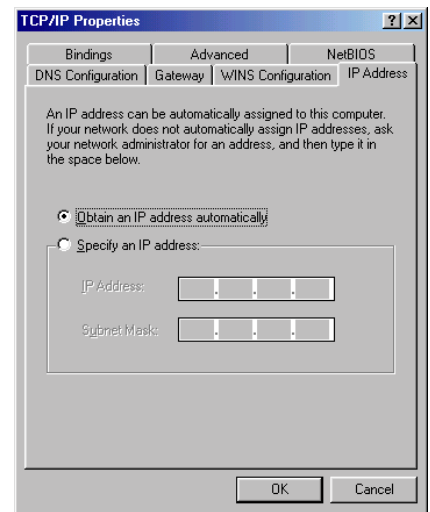
6. Click **OK** and reboot the PC.

7. You may check that the built-in DHCP server of your ADSL modem is enabled, by checking the settings of ET2 in the the Network Settings web page (see picture on page 11).

   You can see the most common settings here to the right: These should suit most users.
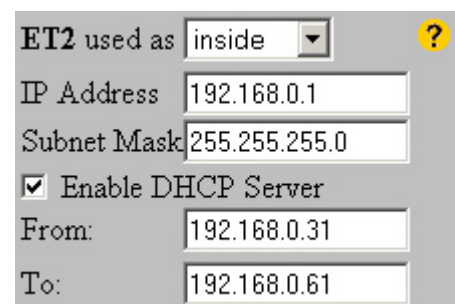
If you already run a DHCP server on your LAN you should turn it off or change its settings to distribute the ADSL modem as default gateway.

8

Using the ADSL Modem with Static IP Addresses on the LAN

This information is intended for advanced users. If you are not familiar with terms like static IP addressing you do not need to read this chapter. Refer to page 8 instead.

If you want your ADSL modem to be part of an existing LAN that uses static IP addresses, you have to change its LAN (ET2) IP address to an unused IP address that fits the same subnet as your LAN.

You may use the keys on the front panel to change the IP address:

1. Press and hold **SET** pressed for 3 seconds, to enter setup mode.

2. Press **SELECT** once, so CFG is lit.

3. Press **SELECT** repeatedly until "E 2" (ET2) appears in the display.
4. Press **SET**.

5. Press **SET**. The first 3 digits of the IP address are shown and the first digit flashes.
6. Press **ALT CFG** repeatedly, until the correct digit is displayed.

7. Press **SELECT**: the next digit flashes, and can be changed using **ALT CFG**.
8. Use **SELECT** to step through all digits of the IP address.
    Use **SET** to step back to the previous digit if you have made any error.
    Use **ALT CFG** to change the value of the flashing digit.
    You can cancel the IP address set-up, without saving any changes, by pressing the **SELECT** key and holding it pressed for 2 seconds.
9. After stepping through all digits of the IP address, the subnet mask appears and can be modified. Each subnet mask number can only be set to values 255, 254, 252, 248, 240, 224, 192, 128, or 0.
10. Press **ALT CFG** repeatedly, until the correct value is displayed.
    Press **SELECT** to step to the next subnet mask number.

11. When all digits have been displayed the IP address and subnet mask are saved.
12. Complete the installation with the steps on the next page.
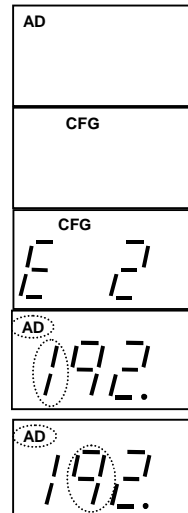
Is your ADSL modem not equipped with display and keys?

Do like this:
Connect a PC to the ET2 port on your ADSL modem and configure the PC to use dynamic IP addressing. Refer to page 8.

Change the setting for the ET2 port on your ADSL modem through the built-in web interface. Refer to page 12.

Change PC IP configuration back to its static settings.

Complete the installation with the steps on the next page.

Note! The procedure below has to be performd for all pc:s connected to your local network (LAN):

(The steps described here are for Windows 98. Other operating systems have similar menues, though accessing them may be done differently.)

1. Right click on the **Network** icon on your desktop, and select **Properties**.

2. Click on "**TCP/IP**" for your network card on the list that appears.

3. Click **Properties**, select **Gateway**.

4. Enter the IP address of your ADSL modem (the one you entered in step 3-6 on the previous page and click **Add**.

5. Click **DNS Configuration**.

6. Select **Enable DNS**.

7. Copy the DNS settings from the network settings page on the ADSL modems web interface. (Refer to page 11) to **Search order for DNS servers** and click **Add.**

8. Click **OK**.
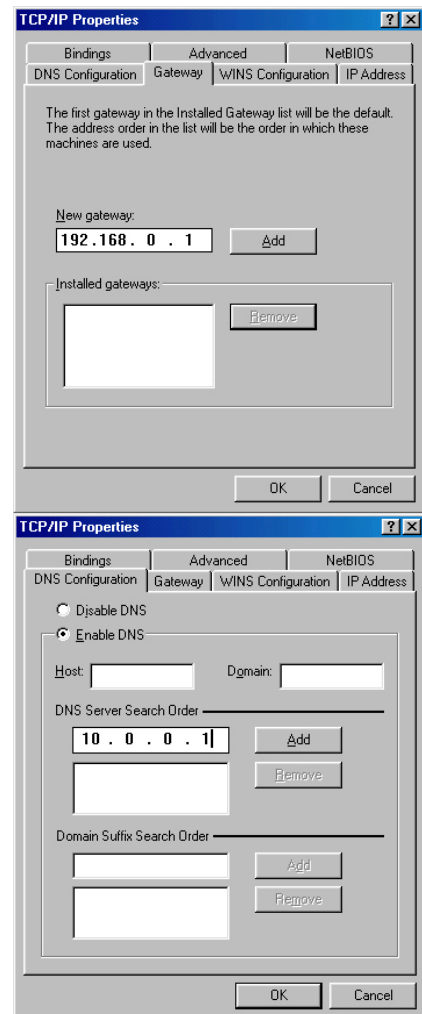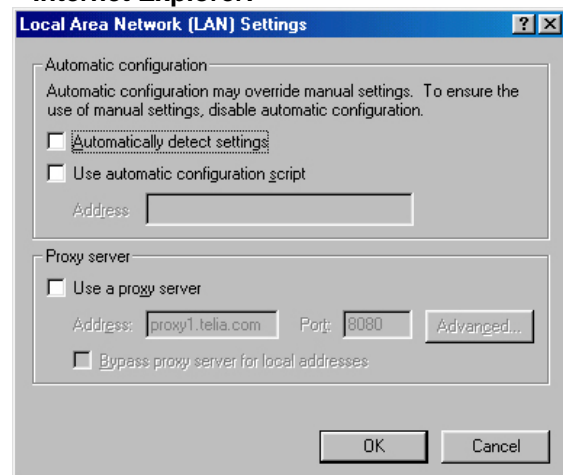
Check the proxy settings of your web browser

If your web browser is configured to use a proxy server, you may have problems reaching the built-in pages of your ADSL modem. In that case, disable the proxy server in your browser:

Netscape Navigator:
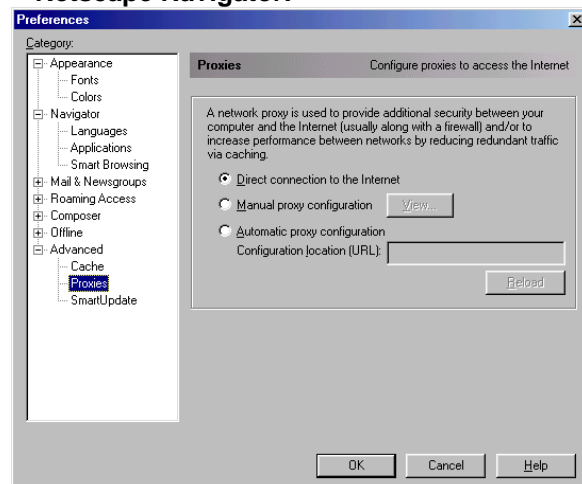
Select Edit, Properties, Advanced, Proxies: "Direct connection to the Internet" shall be selected.

Internet Explorer:

Select Tools, Options, Connection, LAN settings: The checkbox "Use a proxy-server" must <u>not</u> be selected.

Configure Your ADSL Modem!

Your ADSL modem is delivered with factory settings that fit most users. In some situations however, you need to change the configuration of your modem.

To access the built-in pages inside the ADSL modem, do the following:
1. Start a web browser, such as Internet Explorer or Netscape Navigator, on your PC.
2. Write the IP address of your ADSL modem, **192.168.0.1**, in the address field of the browser. The first web configuration page should appear.
3. Click **Log in**.
4. Enter **User name** and **Password**.
   *(At delivery: User name=**admin**, Password=**admin**. You should change them at once!)*
5. Select **Network** in the main menu.

These fields are filled automatically if Get by DHCP is selected.

How do I configure ET2 (the LAN connection)? Refer to pages 8 - 9!

The USB settings fit most users. You probably don't have to change it.

Do not forget to click Save if you change any settings!

Note!

**Each of the interfaces LINE, USB, ET2, ET1 must reside on separate subnets.
Two interfaces cannot have the same IP address – even if one of them is blocked!**

11

Reset to Factory Defaults

If you wish to reset all settings to their original values, so your ADSL modem is set up the same way as when delivered from the factory, do like this:

If your ADSL modem is equipped with keys and a display:

1. Press and hold **SET** pressed for 3 seconds, to enter setup mode.

2. Press **SELECT** repeatedly until "RST" appears in the display.

3. Press **SET**.

4. The question "Clear all?" appears, and then "no".

5. Press **SELECT** to choose "YES".

6. Press **SET**.

The modem now resets and then restarts.
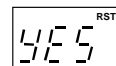
If your ADSL modem is not equipped with keys and display:

1. Insert a paperclip in the hole at the right of the front panel.

2. Keep the paperclip pressed for 3 seconds, until all front panel LEDs is switched off.

3. After a while, the LEDs are lit one after the other, starting with RXD.

4. When exactly 3 LEDs are lit (WAN, TXD, RXD) insert the paperclip again.

The modem now resets and then restarts.
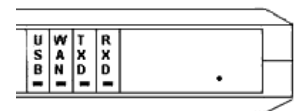
Connecting a Local Network (LAN)

Note!
- **Only one computer can be connected to the USB port on the ADSL modem. No LAN can be connected.**
- **Some simpler models of the ADSL modem are locked so they are only able to connect a single computer through the ET2 interface. This lock is then indicated on the bottom of the web page Network (refer to page 11). To connect a LAN to such models, the firmware must be upgraded to a version with LAN functionality.**

If you have a Local Area Network (LAN) with several computers connected, you can connect the network hub to your ADSL modem and allow all computers to share the Internet connection.
Usually you need a crossover Ethernet cable to connect the hub to port ET2 of your ADSL modem.
But if your hub has a port marked "UPLINK" or similar, you should use a straight Ethernet cable.

If your network uses dynamic IP-addressing (recommended), then the built-in DHCP server of your ADSL modem will provide IP addresses to all PC:s on the LAN. Refer to page 8 for more information.

Is your LAN is using static IP addresses? Refer to page 9!

Security

Your ADSL modem has a powerful firewall built-in. The firewall supervises the passing data traffic and stops unauthorised traffic. The active security level is shown on the front panel display. It can be changed using the `ALT CFG` key, or the menu page on the built in web interface.
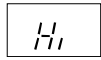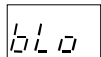
Only web and email traffic is allowed - Highest security, but some applications may have trouble passing.
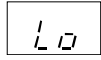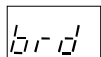
All outgoing and legitimate incoming traffic is allowed - Same security against attacks as the Hi profile, but more applications are allowed to pass out to the Internet.
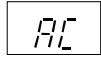
User editable security profile - The user may edit the details for this security profile.

Blocked - No traffic is allowed to pass. You are disconnected from the Internet.

Bridged - Firewall and NAT bypassed. **Warning! Not Recommended.**
(NOTE. *The bridged mode does not work on PPPoA connections.*)

Does your application have trouble getting out on the Internet?
Do you get an error message?
Change to the "Lo" security profile!

If you have:
- servers that you want to make Internet accessible
- A VPN client to work from home
- network games (games played together with other users on the net).

you have to configure the firewall to allow such traffic to pass.

You can edit the firewall settings by choosing Security under Settings on the menu page. Then choose AC to edit the security profile to fit your games or applications.

Select the applications and protocols you want to allow through the firewall. For some applications you need to state the IP address of the computer on your LAN that will receive the traffic. It is the IP address to your local computer you should enter. In Windows choose **Start**, **Run**, and enter **winipcfg** to find out what IP address your computer is assigned to.

Advanced users may manually redirect ports and even edit the rules controlling the firewall in a powerful command language.

Do not forget to click Save and change the profile to AC if you make any changes!

Security Profile: AltConf ← ?

Get default values

Allowed applications	IP Address	?
☐ Web server		
☐ Telnet server		
☐ SSH server (Secure Shell)		
☐ FTP server		
☐ PING receiver		
☐ VPN/PPTP client		
☐ VPN/IPsec client		
☑ SIP		
☐ Remote configuration		
☐ DirectX		
☐ Delta Force		
☐ Command & Conquer III		
☐ Red Alert		
☐ Descent 3		
☐ Microsoft Netmeeting 2.0		

Enter port redirections

Applications from inside ?
☐ All
   ☐ All TCP
   ☐ All UDP
   ☑ Web
   ☐ NNTP
   ☑ POP3
   ☑ IMAP
   ☑ SMTP
   ☑ FTP
   ☑ Ping
   ☑ SSH
   Other TCP ports
   Other UDP ports

General settings ?
☐ Loose UDP (Peer-to-peer gaming)
☐ Disable "ICMP close" (Port Unreachable)
TCP inactivity timeout 900 seconds
UDP inactivity timeout 300 seconds
Firewall Log off

Save

Edit rules (Only for the advanced user!)

Requirements

In order to set up and use ADSL modem you need:

- *Ethernet connection*: a computer with an Ethernet port or a local network (LAN) using TCP/IP.
- *USB connection*: a computer running Windows 98 / 2000 / Me / XP and a USB port.
- A web browser such as the Microsoft Internet Explorer or the Netscape Navigator, version 4 or later, installed on the PC.
- An ADSL account at your local ISP (Internet Service Provider).

Note!
If you use your own Ethernet cables, make sure they are wired correctly: - A straight-through cable must be used to connect the ADSL modem to a PC. - An Ethernet hub requires a crossover cable to connect the ADSL modem (when the hub does <u>not</u> have a port marked "UPLINK" or similar).

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DECLARATION OF CONFORMITY
according to EN 45014

The manufacturer Intertex Data AB, Rissneleden 45, 174 44 Sundbyberg, Sweden, herewith declares the firewalls/modems in the Intertex IX66 Internet Gate series are in compliance with the essential requirements and other relevant provisions of the following EC directives:

1999/5/EC   Radio & Telecommunications Terminal Equipment Directive (R&TTE)
and that the following harmonised standards and/or technical specifications have been applied:

Electromagnetic Emission: **EN 50081-1:1992, EN 50081-2:1993, EN 55022:1998**
Electromagnetic Immunity: **EN 50082-1:1997, EN 61000-6-2:1999, EN 55024:1998**
Safety: **EN 60950**

Stockholm September 30, 2001

Karl Erik Ståhl

Karl Erik Ståhl, President Intertex Data AB

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DECLARATION OF CONFORMITY
*according to FCC Part 15*

The firewalls/modems in the Intertex IX66 Internet Gate series comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)   the devices may not cause harmful interference, and
(2)   the devices must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment cause harmful interference to radio or television reception, which can be dermined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-          Reorient or relocate the receiving antenna.
-          Increase the separation between the equipment and receiver.
-          Connect the equipment into an outlet on a circuit different from that to which the receiver is
           connected.
-          Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressively approved by Intertex Data AB could void the user's authority to operate this equipment.
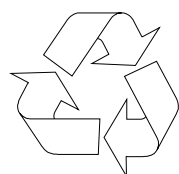
To preserve the environment, you should return the product to where you purchased it or directly to an accredited electronics recycling station.

Intertex uses accredited companies and organisations for recycling and disposion of electronics, packing materials and emballage.

Notes:

This ADSL modem is developed and manifactured by Intertex Data AB.

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InterteX

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